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frequency
NEWS 5 Feb 19 Access via Tymnet and SprintNet Eliminated
Effective 3/31/02
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NEWS 8 Mar 22 TRCTHERMO no longer available
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and USPATFULL
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NEWS 17 Apr 22 BIOSIS Gene Names now available in
TOXCENTER
NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now
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NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS
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V6.0Ja(JP),

AND CURRENT DISCOVER FILE IS DATED 05
FEBRUARY 2002

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=> s bicistronic or dicistronic
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=> file medline biosis caplus
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FULL ESTIMATED COST 0.84 0.84

FILE 'MEDLINE' ENTERED AT 11:29:17 ON 19 JUL 2002

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=> s bicistronic or dicistronic
L1 3169 BICISTRONIC OR DICISTRONIC

=> s plasmid or vector
L2 550986 PLASMID OR VECTOR

=> s l1(s)l2
L3 1263 L1(S) L2

=> s intron?
L4 81062 INTRON?

=> s l3(p)l4
L5 5 L3(P) L4

=> dup rem l5
PROCESSING COMPLETED FOR L5
L6 3 DUP REM L5 (2 DUPLICATES REMOVED)

=> d ti so 1-3

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
TI Method for selecting high-expressing host cells using dicistronic
expression system containing selectable/amplifiable gene within an
intron
SO PCT Int. Appl., 75 pp.
CODEN: PIXXD2

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
TI Method for selecting high-expressing host cells using dicistronic
expression system containing selectable/amplifiable gene within an
intron
SO PCT Int. Appl., 141 pp.
CODEN: PIXXD2

L6 ANSWER 3 OF 3 MEDLINE DUPLICATE 1
TI High-level production of recombinant proteins in CHO cells using a
dicistronic DHFR intron expression vector.
SO NUCLEIC ACIDS RESEARCH, (1996 May 1) 24 (9) 1774-9.

=> d ibib ab 1,2

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:50811 CAPLUS

DOCUMENT NUMBER: 134:111243

TITLE: Method for selecting high-expressing host cells using
dicistronic expression system containing
selectable/amplifiable gene within an intron

INVENTOR(S): Chisholm, Vanessa; Crowley, Craig W.;

Krummen, Lynne

A.; Meng, Yu-Ju G.

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| WO 2001004306 | A1 | 20010118 | WO 2000-US18841 | |
| 20000711 | | | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| EP 1196566 | A1 | 20020417 | EP 2000-945309 | 20000711 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | |

PRIORITY APPLN. INFO.: US 1999-143360P P 19990712
WO 2000-US18841 W 20000711

AB Vectors and methods for efficient isolation of recombinant cells expressing high levels of a desired protein are provided. The vectors comprise an amplifiable selectable gene, a fluorescent protein gene, and a

gene encoding a desired product in a manner that optimizes transcriptional and translational linkage. The method utilizes eukaryotic host cells harboring a DNA construct comprising a selectable gene (preferably an amplifiable gene) and a product gene provided 3' to the selectable gene.

The selectable gene is positioned within an intron defined by a splice donor site and a splice acceptor site and the selectable gene and product gene are under the transcriptional control of a single transcriptional regulatory region. The splice donor site is generally an efficient splice donor site and thereby regulates expression of the product gene using the transcriptional regulatory region. The transfected cells are cultured so

as to express the gene encoding the product in a selective medium comprising an amplifying agent for sufficient time to allow amplification to occur, whereupon either the desired product is recovered or cells having multiple copies of the product gene are identified. CHO cells

contg. tissue plasminogen activator (tPA) expression vectors according to the invention produced .gtoreq.9-fold higher tPA levels after amplification than did CHO cells contg. conventional vectors. The vector was a pRK deriv. This vector contains a cytomegalovirus immediate early promoter and an intron having a splice donor site derived from the cytomegalovirus immediate early gene and a splice acceptor site from an IgG heavy chain variable region gene. The DHFR gene was inserted into this intron and the tPA gene was inserted downstream of the splice acceptor site.

REFERENCE COUNT: 7 THERE ARE 7 CITED

REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:302525 CAPLUS

DOCUMENT NUMBER: 124:334830

TITLE: Method for selecting high-expressing host cells using
dicistronic expression system containing
selectable/amplifiable gene within an intron

INVENTOR(S): Crowley, Craig W.

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: PCT Int. Appl., 141 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|----------|
| WO 9604391 | A1 | 19960215 | WO 1995-US9576 | 19950728 |
| W: | AU, CA, JP, MX | | | |
| RW: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | |
| US 5561053 | A | 19961001 | US 1994-286740 | 19940805 |
| CA 2195303 | AA | 19960215 | CA 1995-2195303 | 19950728 |
| AU 9532045 | A1 | 19960304 | AU 1995-32045 | 19950728 |
| AU 704408 | B2 | 19990422 | | |
| EP 770136 | A1 | 19970502 | EP 1995-928192 | 19950728 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | |
| JP 10503376 | T2 | 19980331 | JP 1995-506644 | 19950728 |
| PRIORITY APPLN. INFO.: | | | US 1994-286740 | 19940805 |
| | | | WO 1995-US9576 | 19950728 |

AB A method for selecting recombinant host cells expressing high levels of a desired protein is described. This method utilizes eukaryotic host cells harboring a DNA construct comprising a selectable gene (preferably an amplifiable gene) and a product gene provided 3' to the selectable gene. The selectable gene is positioned within an intron defined by a splice donor site and a splice acceptor site and the selectable gene and product gene are under the transcriptional control of a single transcriptional regulatory region. The splice donor site is generally an efficient splice donor site and thereby regulates expression of the product gene using the transcriptional regulatory region. The transfected cells are cultured so as to express the gene encoding the product in a selective medium comprising an amplifying agent for sufficient time to allow amplification to occur, whereupon either the desired product is recovered or cells having multiple copies of the product gene are identified. CHO cells contg. tissue plasminogen activator (tPA) expression vectors

according to
the invention produced .gtoreq.9-fold higher tPA levels after
amplification than did CHO cells contg. conventional vectors. The
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cytomegalovirus immediate early gene and a splice acceptor site from
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IgG heavy chain variable region gene. The DHFR gene was inserted
into
this intron and the tPA gene was inserted downstream of the splice
acceptor site.

=> d ibib ab 2,3

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1996:302525 CAPLUS
DOCUMENT NUMBER: 124:334830
TITLE: Method for selecting high-expressing host cells using
dicistronic expression system containing
selectable/amplifiable gene within an intron
INVENTOR(S): Crowley, Craig W.
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: PCT Int. Appl., 141 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 9604391 | A1 | 19960215 | WO 1995-US9576 | 19950728 |
| W: AU, CA, JP, MX | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| US 5561053 | A | 19961001 | US 1994-286740 | 19940805 |
| CA 2195303 | AA | 19960215 | CA 1995-2195303 | 19950728 |
| AU 9532045 | A1 | 19960304 | AU 1995-32045 | 19950728 |
| AU 704408 | B2 | 19990422 | | |
| EP 770136 | A1 | 19970502 | EP 1995-928192 | 19950728 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| JP 10503376 | T2 | 19980331 | JP 1995-506644 | 19950728 |
| PRIORITY APPLN. INFO.: US 1994-286740 19940805 | | | | |
| WO 1995-US9576 19950728 | | | | |

AB A method for selecting recombinant host cells expressing high
levels of a
desired protein is described. This method utilizes eukaryotic host
cells
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an
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gene.
The selectable gene is positioned within an intron defined by a splice
donor site and a splice acceptor site and the selectable gene and
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gene are under the transcriptional control of a single transcriptional
regulatory region. The splice donor site is generally an efficient
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to occur, whereupon either the desired product is recovered or cells
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contg. tissue plasminogen activator (tPA) expression vectors
according to
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promoter and an intron having a splice donor site derived from the
cytomegalovirus immediate early gene and a splice acceptor site from
an
IgG heavy chain variable region gene. The DHFR gene was inserted
into
this intron and the tPA gene was inserted downstream of the splice
acceptor site.

L6 ANSWER 3 OF 3 MEDLINE DUPLICATE 1
ACCESSION NUMBER: 96211385 MEDLINE
DOCUMENT NUMBER: 96211385 PubMed ID: 8649999
TITLE: High-level production of recombinant proteins in CHO
cells

using a dicistronic DHFR intron
expression vector.
AUTHOR: Lucas B K; Giere L M; DeMarco R A; Shen A;
Chisholm V;
Crowley C W
CORPORATE SOURCE: Department of Molecular Biology,
Genentech, Inc., South San
Francisco, CA 94080-4990, USA.
SOURCE: NUCLEIC ACIDS RESEARCH, (1996 May 1) 24 (9)
1774-9.
Journal code: 0411011. ISSN: 0305-1048.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199607
ENTRY DATE: Entered STN: 19960805
Last Updated on STN: 19960805
Entered Medline: 19960725
AB We have constructed expression vectors for Chinese hamster ovary
(CHO)
cells that produce both selectable marker and recombinant cDNA
from a
single primary transcript via differential splicing. These vectors
produce
stable CHO cell clones that, when pooled, produce abundant amounts
of
secreted recombinant proteins compared with the amounts produced
by
conventional expression approaches that have selectable marker and
the
cDNA of interest under control of separate transcription units. Our
vectors divert most of the transcript to product expression while
linking
it, at a fixed ratio, to dihydrofolate reductase (DHFR) expression to
allow selection of stable transfectants. Pools of clones with increased
expression of the product gene can be efficiently generated by
selection
in methotrexate. The high level of expression from pools allows
convenient
and rapid production of milligram amounts of recombinant proteins.

=> d his

(FILE 'HOME' ENTERED AT 11:26:52 ON 19 JUL 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 11:29:17 ON
19 JUL 2002
L1 3169 S BICISTRONIC OR DICISTRONIC
L2 550986 S PLASMID OR VECTOR
L3 1263 S L1(S)L2
L4 81062 S INTRON?
L5 5 S L3(PL4
L6 3 DUP REM L5 (2 DUPLICATES REMOVED)

=> s l3 not py>1996

L7 327 L3 NOT PY>1996

=> s (two or multiple)(2a)promoter

L8 12000 (TWO OR MULTIPLE)(2A) PROMOTER

=> s (express? or transcript?) (cassette or unit)

MISSING OPERATOR NSCRIPT?(CASSETTE

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s (express? or transcript?)(cassette or unit)

MISSING OPERATOR ANSCRIPT?(CASSETTE

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s trnascript? (cassette or unit)

MISSING OPERATOR 'NASCRIPT?(CASSETTE'

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s transcript? cassette

L9 109 TRANSCRIPT? CASSETTE

=> s trnascript? unit

L10 0 TRNASCRIPT? UNIT

=> s transcript? unit

L11 10388 TRANSCRIPT? UNIT

=> s express? cassette

L12 3274 EXPRESS? CASSETTE

=> s express? unit

L13 383 EXPRESS? UNIT

=> s multiple(2a)l9

L14 3 MULTIPLE(2A) L9

=> s multiple(2a)l11

L15 88 MULTIPLE(2A) L11

=> s multiple(2a)l12

L16 28 MULTIPLE(2A) L12

=> s multiple(2a)l13

L17 5 MULTIPLE(2A) L13

=> s two(2a)l9

L18 9 TWO(2A) L9

=> s two(2a)l11

L19 614 TWO(2A) L11

=> s two(2a)l12

L20 95 TWO(2A) L12

=> s two(2a)l13

L21 26 TWO(2A) L13

=> s l14-l21

L22 857 (L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21)

=> d is

'IS' IS NOT A VALID FORMAT

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=> d his

(FILE 'HOME' ENTERED AT 11:26:52 ON 19 JUL 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 11:29:17 ON 19 JUL 2002

L1 3169 S BICISTRONIC OR DICISTRONIC

L2 550986 S PLASMID OR VECTOR

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L4 81062 S INTRON?

L5 5 S L3(P)L4

L6 3 DUP REM L5 (2 DUPLICATES REMOVED)

L7 327 S L3 NOT PY>1996

L8 12000 S (TWO OR MULTIPLE)(2A)PROMOTER

L9 109 S TRANSCRIPT? CASSETTE

L10 0 S TRNASCRIPT? UNIT

L11 10388 S TRANSCRIPT? UNIT

L12 3274 S EXPRESS? CASSETTE

L13 383 S EXPRESS? UNIT

L14 3 S MULTIPLE(2A)L9

L15 88 S MULTIPLE(2A)L11

L16 28 S MULTIPLE(2A)L12

L17 5 S MULTIPLE(2A)L13

L18 9 S TWO(2A)L9

L19 614 S TWO(2A)L11

L20 95 S TWO(2A)L12

L21 26 S TWO(2A)L13

L22 857 S L14-L21

=> s l2 and l22

L23 288 L2 AND L22

=> dup rem l23

PROCESSING COMPLETED FOR L23

L24 160 DUP REM L23 (128 DUPLICATES REMOVED)

=> s l24 not py>1997

L25 94 L24 NOT PY>1997

=> s l25 and l4

L26 3 L25 AND L4

=> dup rem l26

PROCESSING COMPLETED FOR L26

L27 3 DUP REM L26 (0 DUPLICATES REMOVED)

=> d ti so 1-3

L27 ANSWER 1 OF 3 MEDLINE

TI pBECKS. A flexible series of binary **vectors** for Agrobacterium-mediated plant transformation.

SO MOLECULAR BIOTECHNOLOGY, (1997 Dec) 8 (3) 199-213.

Journal code: 9423533. ISSN: 1073-6085.

L27 ANSWER 2 OF 3 MEDLINE

TI Replication initiates at multiple dispersed sites in the ribosomal DNA

plasmid of the protozoan parasite Entamoeba histolytica.

SO MOLECULAR AND CELLULAR BIOLOGY, (1996 May) 16 (5) 2314-24.

Journal code: 8109087. ISSN: 0270-7306.

L27 ANSWER 3 OF 3 MEDLINE

TI The structure of a human neurofilament gene (NF-L): a unique exon-

intron organization in the intermediate filament gene family.

SO BIOCHIMICA ET BIOPHYSICA ACTA, (1987 Jun 6) 909 (1) 10-20.

Journal code: 0217513. ISSN: 0006-3002.

=> s l25 not py>1996

L28 84 L25 NOT PY>1996

=> d ti so 1-84

L28 ANSWER 1 OF 84 MEDLINE

TI Positive selection system to screen for inhibitors of human immunodeficiency virus-1 transcription.

SO NATURE BIOTECHNOLOGY, (1996 Nov) 14 (11) 1592-6.
Journal code: 9604648. ISSN: 1087-0156.

L28 ANSWER 2 OF 84 MEDLINE

TI Selected strategies to augment polynucleotide immunization.

SO GENE THERAPY, (1996 Jan) 3 (1) 67-74.
Journal code: 9421525. ISSN: 0969-7128.

L28 ANSWER 3 OF 84 MEDLINE

TI Characterization of a genomic locus required for synthesis of the antibiotic 2,4-diacetylphloroglucinol by the biological control agent *Pseudomonas fluorescens* Q2-87.

SO MOLECULAR PLANT-MICROBE INTERACTIONS, (1996 Mar) 9 (2) 83-90.
Journal code: 9107902. ISSN: 0894-0282.

L28 ANSWER 4 OF 84 MEDLINE

TI Isolation and characterization of insertional mutations in flagellin genes in the archaeon *Methanococcus voltae*.

SO MOLECULAR MICROBIOLOGY, (1996 May) 20 (3) 657-66.
Journal code: 8712028. ISSN: 0950-382X.

L28 ANSWER 5 OF 84 MEDLINE

TI Co-expression of two gene products in the CNS using double-cassette defective herpes simplex virus vectors.

SO BRAIN RESEARCH. MOLECULAR BRAIN RESEARCH, (1996 Apr) 37 (1-2) 317-23.
Journal code: 8908640. ISSN: 0169-328X.

L28 ANSWER 6 OF 84 MEDLINE

TI Replication initiates at multiple dispersed sites in the ribosomal DNA

plasmid of the protozoan parasite *Entamoeba histolytica*.
SO MOLECULAR AND CELLULAR BIOLOGY, (1996 May) 16 (5) 2314-24.
Journal code: 8109087. ISSN: 0270-7306.

L28 ANSWER 7 OF 84 MEDLINE

TI A system utilizing Epstein-Barr virus-based expression vectors for the functional cloning of human fibroblast growth regulators.

SO GENE, (1995 Oct 27) 164 (2) 195-202.
Journal code: 7706761. ISSN: 0378-1119.

L28 ANSWER 8 OF 84 MEDLINE

TI In vivo reconstitution of highly active *Candida maltosa* cytochrome P450

monooxygenase systems in inducible membranes of *Saccharomyces cerevisiae*.
SO DNA AND CELL BIOLOGY, (1995 Jul) 14 (7) 619-28.
Journal code: 9004522. ISSN: 1044-5498.

L28 ANSWER 9 OF 84 MEDLINE

TI Genetics of the tryptophan biosynthetic pathway of the prokaryotic endosymbiont (*Buchnera*) of the aphid *Schlechtendalia chinensis*.

SO INSECT MOLECULAR BIOLOGY, (1995 Feb) 4 (1) 47-59.
Journal code: 9303579. ISSN: 0962-1075.

L28 ANSWER 10 OF 84 MEDLINE

TI Transcription termination of the streptokinase gene of *Streptococcus equisimilis* H46A: bidirectionality and efficiency in homologous and heterologous hosts.

SO MOLECULAR AND GENERAL GENETICS, (1995 Feb 6) 246 (3) 374-80.
Journal code: 0125036. ISSN: 0026-8925.

L28 ANSWER 11 OF 84 MEDLINE

TI Unusual splice sites in the E1A-E1B cotranscripts synthesized in adenovirus type 40-infected A549 cells.

SO ARCHIVES OF VIROLOGY, (1994) 139 (3-4) 389-402.

Journal code: 7506870. ISSN: 0304-8608.

L28 ANSWER 12 OF 84 MEDLINE

TI Nucleotide sequence of the afimbrial-adhesin-encoding *afa-3* gene cluster

and its translocation via flanking IS1 insertion sequences.
SO JOURNAL OF BACTERIOLOGY, (1994 Dec) 176 (24) 7601-13.
Journal code: 2985120R. ISSN: 0021-9193.

L28 ANSWER 13 OF 84 MEDLINE

TI Role of *rpoS* in the regulation of *Salmonella* plasmid virulence (spv) genes.

SO FEMS MICROBIOLOGY LETTERS, (1994 Oct 15) 123 (1-2) 125-30.
Journal code: 7705721. ISSN: 0378-1097.

L28 ANSWER 14 OF 84 MEDLINE

TI Expression of human immunodeficiency virus antigens in an attenuated

Salmonella typhi vector vaccine.
SO DEVELOPMENTS IN BIOLOGICAL STANDARDIZATION, (1994) 82 159-62. Ref: 9
Journal code: 0427140. ISSN: 0301-5149.

L28 ANSWER 15 OF 84 MEDLINE

TI Development of a human lymphoblastoid cell line constitutively expressing human CYP1A1 cDNA: substrate specificity with model substrates and promutagens.

SO CARCINOGENESIS, (1994 Sep) 15 (9) 1931-7.
Journal code: 8008055. ISSN: 0143-3334.

L28 ANSWER 16 OF 84 MEDLINE

TI Sequence elements upstream of the 3' cleavage site confer substrate strength to the adenovirus L1 and L3 polyadenylation sites.

SO MOLECULAR AND CELLULAR BIOLOGY, (1994 Jul) 14 (7) 4682-93.
Journal code: 8109087. ISSN: 0270-7306.

L28 ANSWER 17 OF 84 MEDLINE

TI Control of gene expression in plant cells using a 434:VP16 chimeric protein.

SO PLANT MOLECULAR BIOLOGY, (1994 Jan) 24 (2) 381-8.
Journal code: 9106343. ISSN: 0167-4412.

L28 ANSWER 18 OF 84 MEDLINE

TI Characterization of the *Streptococcus pneumoniae* maltosaccharide regulator

MalR, a member of the LacI-GalR family of repressors displaying distinctive genetic features.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1993 Dec 5) 268 (34) 25402-8.
Journal code: 2985121R. ISSN: 0021-9258.

L28 ANSWER 19 OF 84 MEDLINE

TI The *Campylobacter* sigma 54 *flaB* flagellin promoter is subject to environmental regulation.

SO JOURNAL OF BACTERIOLOGY, (1993 Jul) 175 (14) 4448-55.
Journal code: 2985120R. ISSN: 0021-9193.

L28 ANSWER 20 OF 84 MEDLINE

TI Transcription from the CaMV 19 S promoter and autocatalysis of translation from CaMV RNA.

SO VIROLOGY, (1993 Jul) 195 (1) 203-10.
Journal code: 0110674. ISSN: 0042-6822.

L28 ANSWER 21 OF 84 MEDLINE

TI Genetic and functional analysis of the multiple antibiotic resistance (*mar*) locus in *Escherichia coli*.

SO JOURNAL OF BACTERIOLOGY, (1993 Mar) 175 (5) 1484-92.
Journal code: 2985120R. ISSN: 0021-9193.

- L28 ANSWER 22 OF 84 MEDLINE
 TI Cloning and partial characterization of two chromosomal loci from *Bacteroides ovatus* that contain genes essential for growth on guar gum.
 SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (1992 May) 58 (5) 1541-8.
 Journal code: 7605801. ISSN: 0099-2240.
- L28 ANSWER 23 OF 84 MEDLINE
 TI The hydrogenase structural operon in *Rhodobacter capsulatus* contains a third gene, *hupM*, necessary for the formation of a physiologically competent hydrogenase.
 SO MOLECULAR MICROBIOLOGY, (1991 Oct) 5 (10) 2519-27.
 Journal code: 8712028. ISSN: 0950-382X.
- L28 ANSWER 24 OF 84 MEDLINE
 TI The *Rhizobium meliloti* *exoZ* *exoB* fragment of megaplasmid 2: *ExoB* functions as a UDP-glucose 4-epimerase and *ExoZ* shows homology to *NodX* of *Rhizobium leguminosarum* biovar *viciae* strain TOM.
 SO MOLECULAR MICROBIOLOGY, (1991 Jun) 5 (6) 1519-30.
 Journal code: 8712028. ISSN: 0950-382X.
- L28 ANSWER 25 OF 84 MEDLINE
 TI Genetics of streptomycin production in *Streptomyces griseus*: molecular structure and putative function of genes *strELMB2N*.
 SO MOLECULAR AND GENERAL GENETICS, (1991 Dec) 231 (1) 113-23.
 Journal code: 0125036. ISSN: 0026-8925.
- L28 ANSWER 26 OF 84 MEDLINE
 TI Torsionally tuned cruciform and Z-DNA probes for measuring unrestrained supercoiling at specific sites in DNA of living cells.
 SO JOURNAL OF MOLECULAR BIOLOGY, (1991 Sep 5) 221 (1) 107-22.
 Journal code: 2985088R. ISSN: 0022-2836.
- L28 ANSWER 27 OF 84 MEDLINE
 TI DNA template effect on RNA splicing: two copies of the same gene in the same nucleus are processed differently.
 SO EMBO JOURNAL, (1991 Nov) 10 (11) 3457-65.
 Journal code: 8208664. ISSN: 0261-4189.
- L28 ANSWER 28 OF 84 MEDLINE
 TI Disruption of the LF-A1 and LF-B1 binding sites in the human alpha-1-antitrypsin gene has a differential effect during development in transgenic mice.
 SO EMBO JOURNAL, (1991 Nov) 10 (11) 3177-82.
 Journal code: 8208664. ISSN: 0261-4189.
- L28 ANSWER 29 OF 84 MEDLINE
 TI Structure and organization of the gas vesicle gene cluster on the *Halobacterium halobium* plasmid pNRC100.
 SO GENE, (1991 Jun 15) 102 (1) 117-22.
 Journal code: 7706761. ISSN: 0378-1119.
- L28 ANSWER 30 OF 84 MEDLINE
 TI Expression of heterologous proteins in *Aspergillus*.
 SO JOURNAL OF BIOTECHNOLOGY, (1991 Jan) 17 (1) 3-9. Ref: 23
 Journal code: 8411927. ISSN: 0168-1656.
- L28 ANSWER 31 OF 84 MEDLINE
 TI The three major immediate-early transcripts of bovine herpesvirus 1 arise from two divergent and spliced transcription units.
 SO JOURNAL OF VIROLOGY, (1991 Jan) 65 (1) 195-205.
 Journal code: 0113724. ISSN: 0022-538X.
- L28 ANSWER 32 OF 84 MEDLINE
 TI Enhancer sequences from *Arabidopsis thaliana* obtained by library transformation of *Nicotiana tabacum*.
 SO MOLECULAR AND GENERAL GENETICS, (1990 Sep) 223 (2) 169-79.
 Journal code: 0125036. ISSN: 0026-8925.
- L28 ANSWER 33 OF 84 MEDLINE
 TI Effects of transcription and translation on gyrase-mediated DNA cleavage in *Escherichia coli*.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Jul 25) 265 (21) 12300-5.
 Journal code: 2985121R. ISSN: 0021-9258.
- L28 ANSWER 34 OF 84 MEDLINE
 TI Genetic analysis of the conjugal transfer determinants encoded by the streptococcal broad-host-range plasmid pIP501.
 SO JOURNAL OF BACTERIOLOGY, (1989 Nov) 171 (11) 6005-12.
 Journal code: 2985120R. ISSN: 0021-9193.
- L28 ANSWER 35 OF 84 MEDLINE
 TI Independent glucocorticoid induction and repression of two contiguous responsive genes.
 SO MOLECULAR AND CELLULAR BIOLOGY, (1989 Jul) 9 (7) 3127-31.
 Journal code: 8109087. ISSN: 0270-7306.
- L28 ANSWER 36 OF 84 MEDLINE
 TI Regulated expression of the overlapping ubiquitous and erythroid transcription units of the human porphobilinogen deaminase (PBG-D) gene introduced into non-erythroid and erythroid cells.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1989 Jun 15) 264 (17) 10186-92.
 Journal code: 2985121R. ISSN: 0021-9258.
- L28 ANSWER 37 OF 84 MEDLINE
 TI Genetic and biochemical analysis of *Shigella dysenteriae* 1 O antigen polysaccharide biosynthesis in *Escherichia coli* K-12: structure and functions of the *rfb* gene cluster.
 SO MICROBIAL PATHOGENESIS, (1986 Jun) 1 (3) 307-24.
 Journal code: 8606191. ISSN: 0882-4010.
- L28 ANSWER 38 OF 84 MEDLINE
 TI Competitive expression of two heterologous genes inserted into one plasmid in *Saccharomyces cerevisiae*.
 SO GENE, (1988 Dec 15) 73 (1) 113-20.
 Journal code: 7706761. ISSN: 0378-1119.
- L28 ANSWER 39 OF 84 MEDLINE
 TI Mulcos: a vector for amplification and simultaneous expression of two foreign genes in mammalian cells.
 SO GENE, (1988 Nov 15) 71 (1) 19-27.
 Journal code: 7706761. ISSN: 0378-1119.
- L28 ANSWER 40 OF 84 MEDLINE
 TI Competition between splicing and polyadenylation reactions determines which adenovirus region E3 mRNAs are synthesized.
 SO MOLECULAR AND CELLULAR BIOLOGY, (1988 Aug) 8 (8) 3291-7.
 Journal code: 8109087. ISSN: 0270-7306.
- L28 ANSWER 41 OF 84 MEDLINE
 TI Studies of UV-inducible promoters from *Clostridium perfringens* in vivo and in vitro.
 SO MOLECULAR MICROBIOLOGY, (1988 Sep) 2 (5) 607-14.
 Journal code: 8712028. ISSN: 0950-382X.

L28 ANSWER 42 OF 84 MEDLINE

TI A molecular map of the chicken major histocompatibility complex: the class

II beta genes are closely linked to the class I genes and the nucleolar organizer.

SO EMBO JOURNAL, (1988 Sep) 7 (9) 2775-85.

Journal code: 8208664. ISSN: 0261-4189.

L28 ANSWER 43 OF 84 MEDLINE

TI Minute virus of mice non-structural protein NS-1 is necessary and sufficient for trans-activation of the viral P39 promoter.

SO JOURNAL OF GENERAL VIROLOGY, (1988 Oct) 69 (Pt 10) 2563-73.

Journal code: 0077340. ISSN: 0022-1317.

L28 ANSWER 44 OF 84 MEDLINE

TI Expression of the Escherichia coli trpE gene in E. coli K12 bacteria: maximum level, rate and time of initiation of anthranilate synthetase production.

SO MOLECULAR AND GENERAL GENETICS, (1987 Dec) 210 (2) 256-61.

Journal code: 0125036. ISSN: 0026-8925.

L28 ANSWER 45 OF 84 MEDLINE

TI Transcriptional mapping of the bacteriophage Mu DNA.

SO JOURNAL OF GENERAL VIROLOGY, (1988 Feb) 69 (Pt 2) 385-93.

Journal code: 0077340. ISSN: 0022-1317.

L28 ANSWER 46 OF 84 MEDLINE

TI Two host-inducible genes of Rhizobium fredii and characterization of the inducing compound.

SO JOURNAL OF BACTERIOLOGY, (1988 Jan) 170 (1) 171-8.

Journal code: 2985120R. ISSN: 0021-9193.

L28 ANSWER 47 OF 84 MEDLINE

TI Supercoiling of the DNA template during transcription.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1987 Oct) 84 (20) 7024-7.

Journal code: 7505876. ISSN: 0027-8424.

L28 ANSWER 48 OF 84 MEDLINE

TI The structure of a human neurofilament gene (NF-L): a unique exon-intron

organization in the intermediate filament gene family.

SO BIOCHIMICA ET BIOPHYSICA ACTA, (1987 Jun 6) 909 (1) 10-20.

Journal code: 0217513. ISSN: 0006-3002.

L28 ANSWER 49 OF 84 MEDLINE

TI lac repressor blocks in vivo transcription of lac control region DNA.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1987 May) 84 (10) 3199-203.

Journal code: 7505876. ISSN: 0027-8424.

L28 ANSWER 50 OF 84 MEDLINE

TI Effects of the position of the simian virus 40 enhancer on expression of

multiple transcription units in a single plasmid.

SO MOLECULAR AND CELLULAR BIOLOGY, (1986 Jul) 6 (7) 2593-601.

Journal code: 8109087. ISSN: 0270-7306.

L28 ANSWER 51 OF 84 MEDLINE

TI Expression of rat NADPH-cytochrome P-450 reductase cDNA in Saccharomyces cerevisiae.

SO DNA, (1986 Feb) 5 (1) 1-10.

Journal code: 8302432. ISSN: 0198-0238.

L28 ANSWER 52 OF 84 MEDLINE

TI A highly modular cloning vector for the analysis of eukaryotic genes and gene regulatory elements.

SO DNA, (1985 Dec) 4 (6) 461-7.

Journal code: 8302432. ISSN: 0198-0238.

L28 ANSWER 53 OF 84 MEDLINE

TI Transcription of Bacillus subtilis plasmid pBD64 and expression of bacteriophage SPO1 genes cloned therein.

SO VIROLOGY, (1985 Apr 15) 142 (1) 98-111.

Journal code: 0110674. ISSN: 0042-6822.

L28 ANSWER 54 OF 84 MEDLINE

TI Resistance, regulatory and production genes for the antibiotic methylenomycin are clustered.

SO EMBO JOURNAL, (1985 Jul) 4 (7) 1893-7.

Journal code: 8208664. ISSN: 0261-4189.

L28 ANSWER 55 OF 84 MEDLINE

TI Cryptic plasmid of Neisseria gonorrhoeae: complete nucleotide sequence and genetic organization.

SO JOURNAL OF BACTERIOLOGY, (1985 Aug) 163 (2) 430-8.

Journal code: 2985120R. ISSN: 0021-9193.

L28 ANSWER 56 OF 84 MEDLINE

TI The adenovirus-2 early E1a transcription unit possesses two overlapping promoters with different sequence requirements for E1a-dependent stimulation.

SO EMBO JOURNAL, (1985 May) 4 (5) 1293-300.

Journal code: 8208664. ISSN: 0261-4189.

L28 ANSWER 57 OF 84 MEDLINE

TI Isolation and characterization of Erwinia chrysanthemi mutants defective

in degradation of hexuronates.

SO JOURNAL OF BACTERIOLOGY, (1985 Feb) 161 (2) 702-8.

Journal code: 2985120R. ISSN: 0021-9193.

L28 ANSWER 58 OF 84 MEDLINE

TI Characterisation of a Dictyostelium discoideum DNA fragment coding for a

putative tRNA^{Val}GUU gene. Evidence for a single transcription unit consisting of two overlapping class III genes.

SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1985 Jan 15) 146 (2) 449-58.

Journal code: 0107600. ISSN: 0014-2956.

L28 ANSWER 59 OF 84 MEDLINE

TI Regulation of Salmonella typhimurium ilvYC genes.

SO JOURNAL OF BACTERIOLOGY, (1984 Sep) 159 (3) 951-7.

Journal code: 2985120R. ISSN: 0021-9193.

L28 ANSWER 60 OF 84 MEDLINE

TI Physical organization of the Bradyrhizobium japonicum nitrogenase gene

region.

SO JOURNAL OF BACTERIOLOGY, (1984 Sep) 159 (3) 857-62.

Journal code: 2985120R. ISSN: 0021-9193.

L28 ANSWER 61 OF 84 MEDLINE

TI Insertions of transposon Tn5 into ribosomal protein PNA polymerase operons.

SO JOURNAL OF BACTERIOLOGY, (1982 Dec) 152 (3) 1022-32.

Journal code: 2985120R. ISSN: 0021-9193.

L28 ANSWER 62 OF 84 MEDLINE

TI Regulation of transcription in expressed and unexpressed mating type

cassettes of yeast.

SO NATURE, (1981 Jan 22) 289 (5795) 239-44.

Journal code: 0410462. ISSN: 0028-0836.

L28 ANSWER 63 OF 84 MEDLINE

TI Cloning of fragments of lambda *dapB2* DNA and identification of the *dapB*

gene product.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1980 Sep 25) 255 (18) 8928-35.

Journal code: 2985121R. ISSN: 0021-9258.

L28 ANSWER 64 OF 84 MEDLINE

TI Genetic organization of the ribosomal transcription units of the yeast *Saccharomyces carlsbergensis*.

SO NUCLEIC ACIDS RESEARCH, (1978 Aug) 5 (8) 2801-8.

Journal code: 0411011. ISSN: 0305-1048.

L28 ANSWER 65 OF 84 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI COMPETITIVE EXPRESSION OF TWO HETEROLOGOUS GENES INSERTED INTO ONE

PLASMID IN *SACCHAROMYCES-CEREVISIAE*.

SO GENE (AMST), (1989) 73 (1), 113-120.

CODEN: GENED6. ISSN: 0378-1119.

L28 ANSWER 66 OF 84 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI COORDINATED EXPRESSION BETWEEN TWO PHOTOSYNTHETIC *PETUNIA* GENES IN TRANSGENIC PLANTS.

SO MOL GEN GENET, (1988) 211 (3), 507-514.

CODEN: MGGEAE. ISSN: 0026-8925.

L28 ANSWER 67 OF 84 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI INTERSPECIES HOMOLOGY OF NODULATION GENES IN RHIZOBIUM.

SO PLANT MOL BIOL, (1987) 8 (1), 61-76.

CODEN: PMBIDB. ISSN: 0167-4412.

L28 ANSWER 68 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Large scale isolation of expression **vector** cassette by magnetic triple helix affinity capture

SO Nucleic Acids Res. (1995), 23(19), 3995-6

CODEN: NARHAD; ISSN: 0305-1048

L28 ANSWER 69 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Cassettes for seed-specific expression tested in transformed embryogenic

cultures of soybean

SO Plant Mol. Biol. Rep. (1995), Volume Date 1995, 13(3), 255-69

CODEN: PMBRD4; ISSN: 0735-9640

L28 ANSWER 70 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Construction of versatile eukaryotic **plasmid** expression **vectors**

SO Shengwu Huaxue Yu Shengwu Wuli Jinzhan (1995), 22(4), 331-4

CODEN: SHYCD4; ISSN: 1000-3282

L28 ANSWER 71 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Characterization of *avrE* from *Pseudomonas syringae* pv. tomato: a *hrp*-linked avirulence locus consisting of at least **two transcriptional units**

SO Mol. Plant-Microbe Interact. (1995), 8(1), 49-57

CODEN: MPMIEL; ISSN: 0894-0282

L28 ANSWER 72 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Expression **vectors** for the preparation of a probe for hepatitis B virus and synthesis of a viral antigen

SO Pol., 21 pp. Abstracted and indexed from the unexamined application.

CODEN: POXXA7

L28 ANSWER 73 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Riboprobe expression cassettes for measuring IGF-I, β -actin and glyceraldehyde 3-phosphate dehydrogenase transcripts

SO J. Immunol. Methods (1994), 168(2), 235-44

CODEN: JIMMBG; ISSN: 0022-1759

L28 ANSWER 74 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Heterologous gene expression in *Saccharomyces cerevisiae*

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

L28 ANSWER 75 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI A method for rapidly assembling complex **plasmid** constructs without propagation of intermediates in *E. coli*

SO BioTechniques (1993), 14(5), 754-5

CODEN: BTNQDO; ISSN: 0736-6205

L28 ANSWER 76 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Nucleotide sequence analysis of the rRNA transcription unit of a pathogenic *Entamoeba histolytica* strain HM-1:IMSS

SO Nucleic Acids Res. (1993), 21(8), 2011

CODEN: NARHAD; ISSN: 0305-1048

L28 ANSWER 77 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Synthesis and secretion of human lysozyme by methylotrophic yeasts

SO PCT Int. Appl., 90 pp.

CODEN: PIXXD2

L28 ANSWER 78 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Preparation of high copy and stable expression **plasmids** for tryptophanase gene

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

L28 ANSWER 79 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Hybrid multigene-containing DNA with self-splicing activity

SO Ger. Offen., 7 pp.

CODEN: GWXXBX

L28 ANSWER 80 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Recombinant manufacture of heterologous proteins

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

L28 ANSWER 81 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Coexpression of genes for and interaction of two subunits of vaccinia

virus capping enzyme

SO U. S. Pat. Appl., 24 pp. Avail. NTIS Order No. PAT-APPL-7-521 682.

CODEN: XAXXAV

L28 ANSWER 82 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Cloning and expression of cDNAs for heterodimeric gonadotropic hormones

SO PCT Int. Appl., 69 pp.

CODEN: PIXXD2

L28 ANSWER 83 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI *Escherichia coli* expression **plasmid** for selective secretion of recombinant products

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

L28 ANSWER 84 OF 84 CAPLUS COPYRIGHT 2002 ACS

TI Expression of **multiple expression units** for improved yield of recombinant proteins

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

=> d his

(FILE 'HOME' ENTERED AT 11:26:52 ON 19 JUL 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 11:29:17 ON 19 JUL 2002

L1 3169 S BICISTRONIC OR DICISTRONIC
 L2 550986 S PLASMID OR VECTOR
 L3 1263 S L1(S)L2
 L4 81062 S INTRON?
 L5 5 S L3(P)L4
 L6 3 DUP REM L5 (2 DUPLICATES REMOVED)
 L7 327 S L3 NOT PY>1996
 L8 12000 S (TWO OR MULTIPLE)(2A)PROMOTER
 L9 109 S TRANSCRIPT? CASSETTE
 L10 0 S TRNASCRIPT? UNIT
 L11 10388 S TRANSCRIPT? UNIT
 L12 3274 S EXPRESS? CASSETTE
 L13 383 S EXPRESS? UNIT
 L14 3 S MULTIPLE(2A)L9
 L15 88 S MULTIPLE(2A)L11
 L16 28 S MULTIPLE(2A)L12
 L17 5 S MULTIPLE(2A)L13
 L18 9 S TWO(2A)L9
 L19 614 S TWO(2A)L11
 L20 95 S TWO(2A)L12
 L21 26 S TWO(2A)L13
 L22 857 S L14-L21
 L23 288 S L2 AND L22
 L24 160 DUP REM L23 (128 DUPLICATES REMOVED)
 L25 94 S L24 NOT PY>1997
 L26 3 S L25 AND L4
 L27 3 DUP REM L26 (0 DUPLICATES REMOVED)
 L28 84 S L25 NOT PY>1996

 => s 118 base pair or 118 nucleotide or 118 bp
 L29 301 118 BASE PAIR OR 118 NUCLEOTIDE OR 118 BP

 => s 14(s)l29
 L30 24 L4(S) L29

 => dup rem l30
 PROCESSING COMPLETED FOR L30
 L31 11 DUP REM L30 (13 DUPLICATES REMOVED)

 => d ti so 1-11

 L31 ANSWER 1 OF 11 MEDLINE DUPLICATE 1
 TI A specific promoter of the sensory cells of the inner ear defined by transgenesis.
 SO HUMAN MOLECULAR GENETICS, (2001 Jul 15) 10 (15) 1581-9.
 Journal code: 9208958. ISSN: 0964-6906.

 L31 ANSWER 2 OF 11 MEDLINE DUPLICATE 2
 TI Evidence for two alternatively spliced forms of phospholipase C-beta2 in haematopoietic cells.
 SO BRITISH JOURNAL OF HAEMATOLOGY, (2000 Aug) 110 (2) 402-8.
 Journal code: 0372544. ISSN: 0007-1048.

 L31 ANSWER 3 OF 11 MEDLINE DUPLICATE 3
 TI Gene organization of a Plasmodium falciparum serine hydroxymethyltransferase and its functional expression in Escherichia coli.
 SO MOLECULAR AND BIOCHEMICAL PARASITOLOGY, (2000 Oct) 110 (2) 283-91.
 Journal code: 8006324. ISSN: 0166-6851.

 L31 ANSWER 4 OF 11 MEDLINE DUPLICATE 4
 TI Characterization of the Neurospora crassa mus-25 mutant: the gene encodes a protein which is homologous to the Saccharomyces cerevisiae Rad54 protein.
 SO MOLECULAR AND GENERAL GENETICS, (2000 Sep) 264 (1-2) 154-63.
 Journal code: 0125036. ISSN: 0026-8925.

L31 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS
 TI Complete nucleotide sequence of the S1-RNase gene of Petunia hybrida
 SO Plant Physiol. (1995), 107(1), 307-8
 CODEN: PLPHAY; ISSN: 0032-0889

 L31 ANSWER 6 OF 11 MEDLINE DUPLICATE 5
 TI A variable number of tandem repeats locus within the human complement C2 gene is associated with a retroposon derived from a human endogenous retrovirus.
 SO JOURNAL OF EXPERIMENTAL MEDICINE, (1992 Jun 1) 175 (6) 1783-7.
 Journal code: 2985109R. ISSN: 0022-1007.

 L31 ANSWER 7 OF 11 MEDLINE DUPLICATE 6
 TI Human NAD(P)H:quinone oxidoreductase (NQO1) gene structure and induction by dioxin.
 SO BIOCHEMISTRY, (1991 Nov 5) 30 (44) 10647-53.
 Journal code: 0370623. ISSN: 0006-2960.

 L31 ANSWER 8 OF 11 MEDLINE DUPLICATE 7
 TI Isolation and characterization of the rat glutamine synthetase-encoding gene.
 SO GENE, (1990 Mar 15) 87 (2) 225-32.
 Journal code: 7706761. ISSN: 0378-1119.

 L31 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS
 TI First nucleotide sequence of a human immunoglobulin variable .lambda. gene belonging to subgroup II
 SO Nucleic Acids Res. (1989), 17(10), 3976
 CODEN: NARHAD; ISSN: 0305-1048

 L31 ANSWER 10 OF 11 MEDLINE DUPLICATE 8
 TI DNA sequence and organization of the mitochondrial ND1 gene from Podospora anserina: analysis of alternate splice sites.
 SO CURRENT GENETICS, (1988 Sep) 14 (3) 253-64.
 Journal code: 8004904. ISSN: 0172-8083.

 L31 ANSWER 11 OF 11 MEDLINE DUPLICATE 9
 TI [Regulator sequences in the kappa-chain gene expressed in the hybridoma PTF.02].
 Regulatortnye posledovatel'nosti v gene kappa-tsepei, ekspressiruemov gibridome PTF.02.
 SO GENETIKA, (1986 Sep) 22 (9) 2228-34.
 Journal code: 0047354. ISSN: 0016-6758.

 => s (synthetic or artificial)(2a)intron
 L32 144 (SYNTHETIC OR ARTIFICIAL)(2A) INTRON

 => s optimiz?(2a)intron
 L33 19 OPTIMIZ?(2A) INTRON

 => s l33 or l32
 L34 162 L33 OR L32

 => dup rem l34
 PROCESSING COMPLETED FOR L34
 L35 86 DUP REM L34 (76 DUPLICATES REMOVED)

 => s l35 not py>1996
 L36 42 L35 NOT PY>1996

 => d ti so 1-42

- L36 ANSWER 1 OF 42 MEDLINE
 TI Characterization of intronic uridine-rich sequence elements acting as possible targets for nuclear proteins during pre-mRNA splicing in *Nicotiana plumbaginifolia*.
 SO NUCLEIC ACIDS RESEARCH, (1996 Feb 15) 24 (4) 619-27.
 Journal code: 0411011. ISSN: 0305-1048.
- L36 ANSWER 2 OF 42 MEDLINE
 TI Artificial evolution and natural ribozymes.
 SO FASEB JOURNAL, (1995 Sep) 9 (12) 1183-95. Ref: 30
 Journal code: 8804484. ISSN: 0892-6638.
- L36 ANSWER 3 OF 42 MEDLINE
 TI The effect of various introns and transcription terminators on the efficiency of expression vectors in various cultured cell lines and in the mammary gland of transgenic mice.
 SO JOURNAL OF BIOTECHNOLOGY, (1995 Jun 21) 40 (3) 169-78.
 Journal code: 8411927. ISSN: 0168-1656.
- L36 ANSWER 4 OF 42 MEDLINE
 TI Sequence and spatial requirements for regulated muscle-specific processing of the sarco/endoplasmic reticulum Ca(2+)-ATPase 2 gene transcript.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1995 May 5) 270 (18) 11004-11.
 Journal code: 2985121R. ISSN: 0021-9258.
- L36 ANSWER 5 OF 42 MEDLINE
 TI Antisense oligonucleotide of c-myc discriminates between zinc- and dexamethasone-induced synthesis of metallothionein.
 SO PHARMACOLOGY, (1994 Feb) 48 (2) 119-26.
 Journal code: 0152016. ISSN: 0031-7012.
- L36 ANSWER 6 OF 42 MEDLINE
 TI Transnuclear retrotransposition of the Tad element of *Neurospora*.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1993 Oct 15) 90 (20) 9384-7.
 Journal code: 7505876. ISSN: 0027-8424.
- L36 ANSWER 7 OF 42 MEDLINE
 TI Synthetic antisense oligonucleotide probes the essentiality of metallothionein gene.
 SO BIOLOGICAL SIGNALS, (1992 Nov-Dec) 1 (6) 293-9.
 Journal code: 9210083. ISSN: 1016-0922.
- L36 ANSWER 8 OF 42 MEDLINE
 TI Mutations at the 3' splice site can be suppressed by compensatory base changes in U1 snRNA in fission yeast.
 SO CELL, (1992 Jun 26) 69 (7) 1159-69.
 Journal code: 0413066. ISSN: 0092-8674.
- L36 ANSWER 9 OF 42 MEDLINE
 TI Construction of expression vectors based on the rice actin 1 (Act1) 5' region for use in monocot transformation.
 SO MOLECULAR AND GENERAL GENETICS, (1991 Dec) 231 (1) 150-60.
 Journal code: 0125036. ISSN: 0026-8925.
- L36 ANSWER 10 OF 42 MEDLINE
 TI The minimum functional length of pre-mRNA introns in monocots and dicots.
 SO PLANT MOLECULAR BIOLOGY, (1990 May) 14 (5) 727-33.
 Journal code: 9106343. ISSN: 0167-4412.
- L36 ANSWER 11 OF 42 MEDLINE
 TI prp4 from *Schizosaccharomyces pombe*, a mutant deficient in pre-mRNA splicing isolated using genes containing **artificial introns**.
 SO MOLECULAR AND GENERAL GENETICS, (1991 Apr) 226 (1-2) 305-9.
 Journal code: 0125036. ISSN: 0026-8925.
- L36 ANSWER 12 OF 42 MEDLINE
 TI Single-step selection for Ty1 element retrotransposition.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1991 Feb 1) 88 (3) 936-40.
 Journal code: 7505876. ISSN: 0027-8424.
- L36 ANSWER 13 OF 42 MEDLINE
 TI Regulation of gene expression using **artificial introns**.
 SO TANPAKUSHITSU KAKUSAN KOSO. PROTEIN, NUCLEIC ACID, ENZYME, (1990 Oct) 35 (14) 2391-4.
 Journal code: 0413762. ISSN: 0039-9450.
- L36 ANSWER 14 OF 42 MEDLINE
 TI A modular set of lacZ fusion vectors for studying gene expression in *Caenorhabditis elegans*.
 SO GENE, (1990 Sep 14) 93 (2) 189-98.
 Journal code: 7706761. ISSN: 0378-1119.
- L36 ANSWER 15 OF 42 MEDLINE
 TI The AU-rich sequences present in the introns of plant nuclear pre-mRNAs are required for splicing.
 SO CELL, (1989 Aug 11) 58 (3) 473-83.
 Journal code: 0413066. ISSN: 0092-8674.
- L36 ANSWER 16 OF 42 MEDLINE
 TI DNA rearrangement and restriction fragment length polymorphism within the first BCR intron in Philadelphia-positive acute leukemia.
 SO AMERICAN JOURNAL OF HEMATOLOGY, (1989 Sep) 32 (1) 24-9.
 Journal code: 7610369. ISSN: 0361-8609.
- L36 ANSWER 17 OF 42 MEDLINE
 TI Control of gene expression by **artificial introns** in *Saccharomyces cerevisiae*.
 SO SCIENCE, (1989 Jun 16) 244 (4910) 1346-8.
 Journal code: 0404511. ISSN: 0036-8075.
- L36 ANSWER 18 OF 42 MEDLINE
 TI Introduction of functional **artificial introns** into the naturally intronless *ura4* gene of *Schizosaccharomyces pombe*.
 SO MOLECULAR AND CELLULAR BIOLOGY, (1989 Apr) 9 (4) 1526-35.
 Journal code: 8109087. ISSN: 0270-7306.
- L36 ANSWER 19 OF 42 MEDLINE
 TI Some cis- and trans-acting mutants for splicing target pre-mRNA to the cytoplasm.
 SO CELL, (1989 May 19) 57 (4) 573-83.
 Journal code: 0413066. ISSN: 0092-8674.
- L36 ANSWER 20 OF 42 MEDLINE
 TI A **synthetic intron** in a naturally intronless yeast pre-tRNA is spliced efficiently in vivo.
 SO MOLECULAR AND CELLULAR BIOLOGY, (1989 Jan) 9 (1) 329-31.
 Journal code: 8109087. ISSN: 0270-7306.
- L36 ANSWER 21 OF 42 MEDLINE
 TI Simultaneous deletion of the intervening sequences from the human interferon-gamma gene by oligodeoxynucleotide-directed mutagenesis.
 SO GENE, (1987) 57 (1) 11-9.
 Journal code: 7706761. ISSN: 0378-1119.
- L36 ANSWER 22 OF 42 MEDLINE

TI Two spliceosomes can form simultaneously and independently on
synthetic double-intron messenger RNA precursors.

SO EMBO JOURNAL, (1987 Jun) 6 (6) 1747-55.
Journal code: 8208664. ISSN: 0261-4189.

L36 ANSWER 23 OF 42 MEDLINE

TI Intron mutations that affect the splicing efficiency of the CYH2
gene of
Saccharomyces cerevisiae.

SO MOLECULAR AND GENERAL GENETICS, (1986 May) 203 (2)
300-4.

Journal code: 0125036. ISSN: 0026-8925.

L36 ANSWER 24 OF 42 MEDLINE

TI A role for branchpoints in splicing in vivo.

SO NATURE, (1985 May 30-Jun 5) 315 (6018) 430-2.

Journal code: 0410462. ISSN: 0028-0836.

L36 ANSWER 25 OF 42 MEDLINE

TI Intron sequences involved in lariat formation during pre-mRNA
splicing.

SO CELL, (1985 May) 41 (1) 95-105.

Journal code: 0413066. ISSN: 0092-8674.

L36 ANSWER 26 OF 42 MEDLINE

TI Detection of multiple, unspliced precursor mRNA transcripts for the
Mr

32,000 thylakoid membrane protein from *Euglena gracilis*
chloroplasts.

SO NUCLEIC ACIDS RESEARCH, (1984 Feb 24) 12 (4) 2001-17.

Journal code: 0411011. ISSN: 0305-1048.

L36 ANSWER 27 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL
ABSTRACTS INC.

TI Heterologous introns enhanced expression of human lactoferrin
cDNA in
mouse mammary epithelial cells.

SO Journal of Biochemistry and Molecular Biology, (1995) Vol. 28,
No. 1, pp.
57-61.

ISSN: 1225-8687.

L36 ANSWER 28 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL
ABSTRACTS INC.

TI Self-amplifying expression from the T7 promoter in 3T3 mouse
fibroblasts.

SO Gene (Amsterdam), (1994) Vol. 143, No. 2, pp. 245-249.

ISSN: 0378-1119.

L36 ANSWER 29 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL
ABSTRACTS INC.

TI Synthetic antisense oligonucleotide probes the essentiality of
metallothionein gene.

SO Biological Signals, Vol. 1, No. 6, pp. 293-299.

ISSN: 1016-0922.

L36 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI Circular RNAs: generation of small RNAs with unique properties by
splicing

permuted intron-exon sequences

SO Nucleic Acids Mol. Biol. (1996), 10(Catalytic RNA), 145-159

CODEN: NAMBE8; ISSN: 0933-1891

L36 ANSWER 31 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI High-Affinity Triple Helix Formation by Synthetic Oligonucleotides
at a

Site within a Selectable Mammalian Gene

SO Biochemistry (1995), 34(21), 7243-51

CODEN: BICHAW; ISSN: 0006-2960

L36 ANSWER 32 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI A portable intron for use in the insertion of a foreign into a host
gene

without loss of expression of the host gene

SO PCT Int. Appl., 87 pp.

CODEN: PIXXD2

L36 ANSWER 33 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI Efficient splicing of an AU-rich antisense intron sequence

SO Plant Mol. Biol. (1993), 21(2), 205-11

CODEN: PMBIDB; ISSN: 0167-4412

L36 ANSWER 34 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI The design of an intron for gene expression in *Saccharomyces*
cerevisiae

SO Nippon Nogei Kagaku Kaishi (1993), 67(5), 853-6

CODEN: NNKKA; ISSN: 0002-1407

L36 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI A role for reverse transcripts in gene conversion

SO Nature (London) (1993), 361(6408), 170-3

CODEN: NATUAS; ISSN: 0028-0836

L36 ANSWER 36 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI Identification and amplification of exons in cloned DNA

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

L36 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI Artificial mobile DNA element constructed from the *EcoRI*
endonuclease gene

SO Proc. Natl. Acad. Sci. U. S. A. (1992), 89(5), 1544-7

CODEN: PNASA6; ISSN: 0027-8424

L36 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI RNA-mediated recombination in *S. cerevisiae*

SO Cell (Cambridge, Mass.) (1991), 67(2), 355-64

CODEN: CELLB5; ISSN: 0092-8674

L36 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI Northern analysis of gene-specific primary transcripts using
synthetic

oligonucleotide probes labeled at high specific activity

SO Nucleic Acids Res. (1990), 18(24), 7450

CODEN: NARHAD; ISSN: 0305-1048

L36 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI **Synthetic introns** and their use in
temperature-dependent gene expression

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

L36 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI **Synthetic** DNA containing **intron** sequences of

Saccharomyces for gene cloning

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

L36 ANSWER 42 OF 42 CAPLUS COPYRIGHT 2002 ACS

TI Multiple **intron** elimination using **synthetic** DNA and

its use in genomic DNA cloning

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

=> d ti so 24, 3

L36 ANSWER 24 OF 42 MEDLINE

TI A role for branchpoints in splicing in vivo.

SO NATURE, (1985 May 30-Jun 5) 315 (6018) 430-2.

Journal code: 0410462. ISSN: 0028-0836.

L36 ANSWER 3 OF 42 MEDLINE

TI The effect of various introns and transcription terminators on the
efficiency of expression vectors in various cultured cell lines and in the

mammary gland of transgenic mice.

SO JOURNAL OF BIOTECHNOLOGY, (1995 Jun 21) 40 (3) 169-78.

=> d ibib ab 24, 3

L36 ANSWER 24 OF 42 MEDLINE
ACCESSION NUMBER: 85213872 MEDLINE
DOCUMENT NUMBER: 85213872 PubMed ID: 4000270
TITLE: A role for branchpoints in splicing in vivo.
AUTHOR: Rautmann G; Breathnach R
SOURCE: NATURE, (1985 May 30-Jun 5) 315 (6018) 430-2.
Journal code: 0410462. ISSN: 0028-0836.

PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198507
ENTRY DATE: Entered STN: 19900320
Last Updated on STN: 19970203
Entered Medline: 19850724

AB The nucleotides immediately surrounding intron/exon junctions of genes transcribed by RNA polymerase B can be derived from 'consensus' sequences for donor and acceptor splice sites by only a few base changes. Studies in vivo have underlined the importance of these junction nucleotides for splicing. In higher eukaryotes, no evidence has been found for specific internal intron sequences involved in splicing. However, the recent discovery that, in vitro, introns are excised in a lariat form where the 5' end of the intron is joined via a 2'-5'-phosphodiester linkage to an A residue (branchpoint acceptor) close to the 3' end of the intron, suggests that internal intron sequences may nonetheless be important for splicing. Indeed, in yeast nuclear genes, the internal sequence 5'-TACTAAC-3' (or close homologue) is essential for splicing in vivo. A proposed consensus sequence for branchpoints in mammalian introns is 5'-CT(A/G)A(C/T)-3'. This sequence resembles the essential yeast internal sequence. Are branchpoints involved in the splicing of introns of higher eukaryotes in vivo? We show here that a branchpoint sequence from a human globin gene (5'-CTGACTCTCTCTG-3') greatly enhances the efficiency of splicing of a 'synthetic' intron in HeLa cells. A mutated branchpoint sequence, 5'-CTCCTCTCTCTG-3', in which the branchpoint acceptor nucleotide A has been deleted and the neighbouring purine G mutated to a C, does not exhibit this enhancing capability. We conclude that branchpoints have an important function in the splicing process in vivo.

L36 ANSWER 3 OF 42 MEDLINE
ACCESSION NUMBER: 95358828 MEDLINE
DOCUMENT NUMBER: 95358828 PubMed ID: 7632393
TITLE: The effect of various introns and transcription terminators on the efficiency of expression vectors in various cultured cell lines and in the mammary gland of transgenic mice.
AUTHOR: Petitlerc D; Attal J; Theron M C; Bearzotti M; Bolifraud P; Kann G; Stinnakre M G; Pointu H; Puissant C; Houdebine L M
CORPORATE SOURCE: Agriculture et Agro-Alimentaire Canada, Est Lennoxville, Quebec.

SOURCE: JOURNAL OF BIOTECHNOLOGY, (1995 Jun 21) 40 (3) 169-78.

Journal code: 8411927. ISSN: 0168-1656.

PUB. COUNTRY: Netherlands
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English
FILE SEGMENT: Biotechnology
ENTRY MONTH: 199509
ENTRY DATE: Entered STN: 19950921
Last Updated on STN: 19970203
Entered Medline: 19950914

AB Various combinations of promoters, introns and transcription terminators were used to drive the expression of bovine growth hormone (bGH) cDNA in different cell types. In constructs containing the human cytomegalovirus (hCMV) promoter and the SV40 late genes terminator, the intron from SV40 genes (VP1) was much more efficient, than the intron from the early genes (t). The synthetic intron SIS generated by the association of an adenovirus splice donor and an immunoglobulin G splice acceptor showed the highest activity. The respective potency of these introns was similar in several mammalian (CHO, HC11 and COS) and fish (TO2 and EPC) cells. The rabbit whey acidic protein (WAP) gene promoter was highly efficient to drive the expression of bGH gene in the HC11 mammary cell lines. In contrast, the bGH cDNA under the control of the same promoter was much less efficiently expressed when the SV40 VP1 intron and transcription terminator were used. The rabbit WAP gene and the human GH gene terminators did not or only moderately enhanced the expression of the construct WAP bGH cDNA. Introduction of a promoter sequence from the mouse mammary tumor virus (MMTV) LTR in the VP1 intron increased very significantly the expression of the WAP bGH cDNA. Although several of these vectors showed high potency when expressed stably in HC11 cells, all of them were only moderately efficient in transgenic mice. These data indicate that the VP1 and the SIS introns may be used to express foreign cDNAs with good efficiency in different cell types. The addition of an enhancer within an intron may still reinforce its efficiency. However, transfection experiments, even when stable expression is carried out, are poorly predictive of the potential efficiency of a vector in transgenic animals.

=> s IRES and intron
L37 33 IRES AND INTRON

=> dup rem l37
PROCESSING COMPLETED FOR L37
L38 25 DUP REM L37 (8 DUPLICATES REMOVED)

=> s l38 not py>1996]
NUMERIC VALUE NOT VALID '1996']
NUMERIC VALUE NOT VALID '1996']
NUMERIC VALUE NOT VALID '1996']
Numeric values may contain 1-8 significant figures. If range notation is used, both the beginning and the end of the range must be specified, e.g., '250-300/MW'. Expressions such as '250-/MW' are not allowed. To search for values above or below a given number, use the

>, =>, <, or <= operators, e.g., 'MW => 250'. Text terms cannot be used in numeric expressions. If you specify a unit, it must be dimensionally correct for that field code. To see the unit designations for field codes in the current file, enter "DISPLAY UNIT ALL" at an arrow prompt (=>).

=> s l38 not py>1996
L39 3 L38 NOT PY>1996

=> d ti so 1-3

L39 ANSWER 1 OF 3 MEDLINE
TI A common structural core in the internal ribosome entry sites of picornavirus, hepatitis C virus, and pestivirus.
SO VIRUS GENES, (1996) 12 (2) 135-47.
Journal code: 8803967. ISSN: 0920-8569.

L39 ANSWER 2 OF 3 MEDLINE
TI Low efficiency of the 5' nontranslated region of hepatitis A virus RNA in directing cap-independent translation in permissive monkey kidney cells.
SO JOURNAL OF VIROLOGY, (1994 Aug) 68 (8) 5253-63.
Journal code: 0113724. ISSN: 0022-538X.

L39 ANSWER 3 OF 3 MEDLINE
TI The 5'-untranslated regions of picornavirus RNAs contain independent functional domains essential for RNA replication and translation.
SO JOURNAL OF VIROLOGY, (1994 Jul) 68 (7) 4384-91.
Journal code: 0113724. ISSN: 0022-538X.

=> d his

(FILE 'HOME' ENTERED AT 11:26:52 ON 19 JUL 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 11:29:17 ON 19 JUL 2002

L1 3169 S BICISTRONIC OR DICISTRONIC
L2 550986 S PLASMID OR VECTOR
L3 1263 S L1(S)L2
L4 81062 S INTRON?
L5 5 S L3(P)L4
L6 3 DUP REM L5 (2 DUPLICATES REMOVED)
L7 327 S L3 NOT PY>1996
L8 12000 S (TWO OR MULTIPLE)(2A)PROMOTER
L9 109 S TRANSCRIPT? CASSETTE
L10 0 S TRNASCRIPT? UNIT
L11 10388 S TRANSCRIPT? UNIT
L12 3274 S EXPRESS? CASSETTE
L13 383 S EXPRESS? UNIT
L14 3 S MULTIPLE(2A)L9
L15 88 S MULTIPLE(2A)L11
L16 28 S MULTIPLE(2A)L12
L17 5 S MULTIPLE(2A)L13
L18 9 S TWO(2A)L9
L19 614 S TWO(2A)L11
L20 95 S TWO(2A)L12
L21 26 S TWO(2A)L13
L22 857 S L14-L21
L23 288 S L2 AND L22
L24 160 DUP REM L23 (128 DUPLICATES REMOVED)
L25 94 S L24 NOT PY>1997
L26 3 S L25 AND L4
L27 3 DUP REM L26 (0 DUPLICATES REMOVED)
L28 84 S L25 NOT PY>1996
L29 301 S 118 BASE PAIR OR 118 NUCLEOTIDE OR 118 BP
L30 24 S L4(S)L29
L31 11 DUP REM L30 (13 DUPLICATES REMOVED)
L32 144 S (SYNTHETIC OR ARTIFICIAL)(2A)INTRON
L33 19 S OPTIMIZ?(2A)INTRON
L34 162 S L33 OR L32
L35 86 DUP REM L34 (76 DUPLICATES REMOVED)

L36 42 S L35 NOT PY>1996
L37 33 S IRES AND INTRON
L38 25 DUP REM L37 (8 DUPLICATES REMOVED)
L39 3 S L38 NOT PY>1996

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NEWS 3 Jan 29 FSTA has been reloaded and moves to weekly updates
NEWS 4 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update frequency
NEWS 5 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02
NEWS 6 Mar 08 Gene Names now available in BIOSIS
NEWS 7 Mar 22 TOXLIT no longer available
NEWS 8 Mar 22 TRCTHERMO no longer available
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NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 19 Jun 03 New e-mail delivery for search results now available
NEWS 20 Jun 10 MEDLINE Reload
NEWS 21 Jun 10 PCTFULL has been reloaded
NEWS 22 Jul 02 FOREGE no longer contains STANDARDS file segment
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